

Date: Sat, 10 Jul 93 01:38:21 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V93 #838  
To: Info-Hams

Info-Hams Digest Sat, 10 Jul 93 Volume 93 : Issue 838

## Today's Topics:

\*\* HeathKit Linear Amplifier ?? \*\*  
6 meter CW info

America's Technology Store (was: new Radio Shack HT) (2 msgs)  
callbook

## Collins Mech Filters

Daily Solar Geophysical Data Broadcast for 09 July

### Physical Data Sheet

## Using and caring for Headphones

How is Collins equipment ?

## How is Collins equipment?

SELL : KENWOOD TS-450S \$900

So. Cal. CLARA Repeater

## 58. cat. CLEAR Repeater TUNING A WETRD LOAD

## TUNING A WEIRD LOAD

## TUNING A WEIRD LOAD.... VE Test Conditions

## VE Test conditions

publications to: 17

Scalability of a Software-Defined Infrastructure Testbed for SDN and NFV

Send Replies or notes for publication to: <Info-Hams@UCSD.EDU> or to the author. Requests for

Send subscription requests to: <Info-Hams-REQUEST@UCS

Archives of past issues of the Info-Hams Digest are available (via FTP and ) from UGCB. Full archive available at <http://ugcb.ugb.ac.in/infohams/>

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Fri, 9 Jul 1993 19:47:09 GMT  
From: sdd.hp.com!hpscit.sc.hp.com!hplextra!hpcss01!pollux!mlau@network.UCSD.EDU  
Subject: \*\* HeathKit Linear Amplifier ?? \*\*  
To: info-hams@ucsd.edu

Hi,

Does anybody know the name if that company that was selling Heathkit Linear amplifiers ?? Are theys still selling them ?

thanks in advance

```
*****  
/ - / - / .  
| | | | + ( Mel Lau de AB6IB  
X-X | | | | 1 HP California Personal Computer Division  
|__|_-_- / \ \ | | Silicon Valley, California  
/ / \ \ | | x  
/-----/ \ \ | | x ....hplabs!pollux!mlau  
| [ [ [ | | \ | X  
| # | | | X  
*****
```

-----  
Date: 10 Jul 93 01:44:25 GMT  
From: news.Hawaii.Edu!news@ames.arpa  
Subject: 6 meter CW info  
To: info-hams@ucsd.edu

Aloha.

I am a lapsed ham. I was thinking about getting back into it, mainly to pound some brass again. Trying to find info on ham radio in Hawaii is harder than finding info on Tibetan herbal medicines. CW on 15 meters used to be my favorite mode, though I worked a fair amount of teletype on surplus model 15's for the historically minded out there. I never got into pileups on SSB as a passtime, though in Oklahoma we had lot of opportunity for working 2 meter emergency communications.

1. Is CW still alive and well?
2. What is six meters like these days?
3. What about 10 meters?
4. Any recommendation on rigs that are small, can be powered by a motorcycle battery and will work 20 meters up to 6 meters?

This far south I am amazed at the propagation compared to Oklahoma where I grew up. Everything I used to know about which bands are open when has to be moved up about 4 Mhz.

mike@uhunix.uhcc.hawaii.edu  
once WB5DOH  
Thanks for any info.

-----

Date: Fri, 9 Jul 1993 19:29:04 GMT  
From: pacbell.com!well!moon!pixar!news@network.UCSD.EDU  
Subject: America's Technology Store (was: new Radio Shack HT)  
To: info-hams@ucsd.edu

In article <930707.182152.6c2.rusnews.w165w@garlic.sbs.com>  
system@garlic.sbs.com (Tony Pelliccio) writes:

> You know, this brings up a good point. You work in a what's supposedly  
> called "America's Technology Store" and they won't let you play with the  
> stuff, even though you're a licensed amateur? How the heck else are you  
> suppose to learn what the rig can and can't do.

A long time ago I applied for a job with "America's Technology Store". I was rather experienced technically, but they refused to interview me because I had no experience in operating a cash register. A technically illiterate friend who had worked in a supermarket got the job. I found a better job.

Radio Shack is in the sales business. Technical knowledge isn't terribly important to them - they did acknowledge the need for computer expertise when they were pioneers in computer retailing, but happily unloaded their experts when computers became easier to operate and a commodity. They can do most sales with no technical knowledge, and the hassles of keeping experts who require higher salaries, can go elsewhere, and often talk back are not worth it to them.

At least they aren't letting kids off the street (with no license) transmit on the HTs any more, at least until they pay for them!

Bruce KD60TD

-----

Date: 9 Jul 1993 21:57:35 GMT  
From: swrinde!cs.utexas.edu!uwm.edu!ux1.cso.uiuc.edu!usenet.ucs.indiana.edu!  
voyager.gem.valpo.edu!gabrius@network.UCSD.EDU  
Subject: America's Technology Store (was: new Radio Shack HT)  
To: info-hams@ucsd.edu

Bruce Perens (Bruce@Pixar.com) wrote:

> A long time ago I applied for a job with "America's Technology Store". I was  
> rather experienced technically, but they refused to interview me because I had  
> no experience in operating a cash register. A technically illiterate friend  
> who had worked in a supermarket got the job. I found a better job.

> Radio Shack is in the sales business. Technical knowledge isn't terribly  
> important to them - they did acknowledge the need for computer expertise when  
> they were pioneers in computer retailing, but happily unloaded their experts  
> when computers became easier to operate and a commodity. They can do most

> sales with no technical knowledge, and the hassles of keeping experts who  
> require higher salaries, can go elsewhere, and often talk back are not worth  
> it to them.

Exactly right. I worked for Radio Hut for two and a half years during breaks from school, and our store was a bit different than most - Two engineering students were the sales guys (me and one other) and our manager was the IL state High School Electronics champion (or something like that) who had a complete bench setup in his basement. Needless to say, we spent most of our time taking returns from other stores on items that were sold under incorrect technical information. "Well, they said that this would work!" "I'm sorry, sir, but that straight 12V cord is not going to power your CD player; \*yes\*, it does connect from the CD player to the cigarette lighter, but it doesn't take care of changing the power over."

This summer I finally got a job with Motorola. The only reason why I worked with RS was that it beat flipping burgers at a fast-food joint --even though Burger King by me was offering \$5.25/hr when I was getting \$4.25 or 6.75% commission -- whichever was "more" per hour. (I think that they would have paid us less if there was no minimum wage law ;-) So, it is hard to keep experts on staff. To be fair, for most customers, an expert would be almost overkill. (We were told in one sales class to avoid using "technical terms" and instead use terms like "the end that plugs into the silver threaded thing on the back of the TV" or somesuch.)

--

David Gabrius - Tech Wanna-be! gabrius@gem.valpo.edu  
Pro Student, Computer Engineering perfessr@imsa.edu (IMSA '90)  
"And you can find/Your own way out/You can build/And I can will..." -U2  
"You miss too much these days if you stop to think..." -U2 | PGP22 available

---

Date: Fri, 09 Jul 93 22:20:52 PDT  
From: pacbell.com!amdahl!grafex!ka6etb@network.UCSD.EDU  
Subject: callbook  
To: info-hams@ucsd.edu

kell@lark.jsc.nasa.gov (TED KELL) writes:

> In article <21ijmi\$sra@lester.appstate.edu>, HOFFMANMK@CONRAD.APPSTATE.EDU (M  
> >In <930707.180452.5j2.rusnews.w165w@garlic.sbs.com> system@garlic.sbs.com  
> >writes:  
> .  
> .  
> .  
> >> 3) For some real fun, Anomaly!

> >> telnet 155.212.2.2 (anomaly.sbs.com for the clueless)  
> >> login as HAMRADIO, you'll be prompted for your callsign. You then  
> >> have access to the Anomaly callsign server and several hundred meg of  
> >> ham-related files that are FTP'able....  
>  
> >Can someone confirm that #3 has a valid address?  
> >I have tried to telnet tonight to both the numerical address and the  
> >anomaly.sbs.com and my system says that neither can be found on internet.  
>  
> Well, I tried the 155.212.2.2. Other than being a little slow in response,  
> it worked nicely. I didn't try the alpha address.

Worked for me.

> >Some help, please, I would like to look at the several hundred meg of ham-  
> >related files.

I failed to find several hundred megs of files, unless you count one single file that was over 150-meg. Not one that I would likely download.

I went shopping for stuff for HAM-server. I found nothing there that I thought would be of particular interest to my users. And not indexed, either. ('Course, I'm not one to call the kettle black...)

s

-----  
Date: 10 Jul 93 02:57:03 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Collins Mech Filters  
To: info-hams@ucsd.edu

Looking for anyone that wants to part with Collins Mechanical filters for the KWS-1, specially (in order of pref) the 455K31, 455N31, or 455J31 (Collins Component numbers).

-----  
Date: 10 Jul 93 03:43:24 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: Daily Solar Geophysical Data Broadcast for 09 July  
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 190, 07/09/93  
10.7 FLUX=090.2 90-AVG=110 SSN=063 BKI=2322 3421 BAI=011  
BGND-XRAY=B1.6 FLU1=1.5E+05 FLU10=1.2E+04 PKI=2332 3332 PAI=012  
BOU-DEV=012,036,016,011,020,040,010,006 DEV-AVG=018 NT SWF=00:000

XRAY-MAX= B7.5 @ 0209UT XRAY-MIN= B1.2 @ 2359UT XRAY-AVG= B2.8  
NEUTN-MAX= +002% @ 2315UT NEUTN-MIN= -003% @ 2110UT NEUTN-AVG= +0.1%  
PCA-MAX= +0.1DB @ 0920UT PCA-MIN= -0.2DB @ 2150UT PCA-AVG= -0.0DB  
BOUTF-MAX=55375NT @ 0359UT BOUTF-MIN=55342NT @ 1654UT BOUTF-AVG=55364NT  
GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+071,+000,+000  
GOES6-MAX=P:+146NT@ 1509UT GOES6-MIN=N:-087NT@ 0254UT G6-AVG=+099,-021,-051  
FLUXFCST=STD:090,090,090;SESC:090,090,090 BAI/PAI-FCST=015,015,015/020,010,010  
KFCST=3334 4232 2334 4332 27DAY-AP=012,015 27DAY-KP=2244 2223 2353 2233  
WARNINGS=  
ALERTS=\*\*245STRM:0411-2358UTC  
!!END-DATA!!

NOTE: The Effective Sunspot Number for 08 JUL 93 was 68.7.  
The Full Kp Indices for 08 JUL 93 are: 2o 3o 3o 4- 3- 4- 3o 3-

-----  
Date: Fri, 9 Jul 93 21:31:48 GMT  
From: overload.lbl.gov!agate!howland.reston.ans.net!gatech!concert!news-  
feed-1.peachnet.edu!umn.edu!gaia.ucs.orst.edu!osshe.edu!news.uoregon.edu!  
netnews.nwnet.net!serval!wsuaix.@dog.ee.lbl.gov  
Subject: Flooding and Hams m  
To: info-hams@ucsd.edu

I was curious what roles the ARES and theNTS were playing in the flood  
areas along the Mississippi. Also are HAMs active in Mexico with the  
Hurricane there?

--  
=====  
Patrick D. Walters Washington State University  
i7994779@wsuaix.csc.wsu.edu NW Collegiate Cycling Conference Director  
Voice at (unavailable) KB7VPO  
=====

-----  
Date: 9 Jul 93 20:50:35 GMT  
From: csus.edu!netcom.com!netcomsv!terapin!djc@decwrl.dec.com  
Subject: Headphones  
To: info-hams@ucsd.edu

I'd like to discuss the latest in Headphone Technology for a  
sec. I have owned headphones for years and years as I am a  
broadcaster. I just went out and bought the latest in State Of  
The Art Digital Headphones. They are called The Pro 25's and  
These are light weight with a volume control on the wire so you  
no longer have to get up and go to the stereo to crank them up  
when your favorite song comes on. These use Titanium, which is a

type of metal, for the sound. They are on sale at \$19.95 till the end of July from Radio Shack and I endorse them. You will find they sound wonderful, whether your using them with a small walkman or a full stereo system. They also sound wonderful when plugged into other devices such as Talkingbook machines and Talking Computers. Every note is true with perfect base and treble. Buy a set and you will be most happy as they are extremely comfortable. They normally sell for \$39.95 so now is the time to buy and I don't work for Radio Shack but wanted to share this wonderful technology with you and let you know about the sale.

^0m

37m

31mc32mo33ml34mo35mr36ms37m!0m

The voice of

DJC OUT!!!!0m

---

Date: 9 Jul 1993 17:34:27 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!usenet.ins.cwru.edu!  
howland.reston.ans.net!spool.mu.edu!olivea!inews!ilx018.intel.com!  
dbraun@network.UCSD.EDU  
Subject: How is Collins equipment ?  
To: info-hams@ucsd.edu

Dave Newkirk (dnewkirk@arrl.org) wrote:

: Thanks! Yes, that's more or less the Collins system redone;  
: think Kenwood brought it in the TS-820. Fun if you twist the IF  
: Shift knob **\*really fast\*** -- you can hear a little pitch wobble  
: because time delay through the intervening filtering causes the  
: shifted signal to arrive at the second-osc-driven mixer a bit  
: late. Result: **\*Momentary\*** pitch shift, the magnitude of which  
: varies directly with how fast you slew the oscillator(s).

I might humbly suggest that another reason could be that since both synthesizers have to adjusted by the CPU, they don't get adjusted at exactly the same time, but instead one after another, so for an instant after you turn the knob, they aren't synchronized?

--  
Doug Braun

---

Email: dbraun@iil.intel.com  
Intel Mail: IDC1-41

iNet: 8-435-5069 Long Distance: 011-972-4-655069  
Fax: 8-435-5999 Long Distance: 011-972-4-655999  
Snail Mail: US: Other:  
PO Box 311 Intel Israel, Ltd.  
Mendham, NJ 07945 IDC1-41  
Matam Scientific Center  
Haifa, Israel 31015

---

"There is no human problem which could not be solved if  
people would simply do as I advise." -- Gore Vidal

---

Date: 9 Jul 93 23:09:47 GMT  
From: telesoft!garym@uunet.uu.net  
Subject: Repeater systems with multiple transmitters  
To: info-hams@ucsd.edu

In <21hml5INN1hs@matt.ksu.ksu.edu> steve@matt.ksu.ksu.edu (Steve Schallehn)  
writes:  
>Are there any repeater systems or repeater networks that use multiple  
>transmitters on a single frequency?

San Diego County RACES has a repeater system with 6 different repeater  
sites around the county all on the same frequency. The transmitters are  
not synced in any way, you have to take care to bring up only of the  
repeaters at a time. From the County EOC we can access any of the  
repeaters giving us a much larger coverage area that we would have with  
any one of the repeaters.

--GaryM

--  
Gary Morris KK6YB Internet: garym@alsys.com  
San Diego, CA USA Phone: +1 619-457-2700 x128 (work)

---

Date: Sat, 10 Jul 1993 00:08:00 GMT  
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!  
darwin.sura.net!martha.utcc.utk.edu!utkvx.utk.edu!rpadawer@network.UCSD.EDU  
Subject: SELL: KENWOOD TS-450S \$900  
To: info-hams@ucsd.edu

I have one mint Kenwood TS-450S without the optional antenna  
tuner for \$900. Email or telephone.

Randy, WA4FJF

RPADAWER@UTKVX.UTK.EDU

Randy Padawer P.O. Box 1167 Knoxville, TN 37902  
Telephone: (615) 637-7263 before 11 pm; leave message if not home.  
Internet: RPADAWER@UTKVX.UTK.EDU or GwRepRandy@AOL.COM  
Ham Radio Op: WA4FJF. Ham Packet: WA4FJF @ NOARY.#NOCAL.CA.USA.NA

Date: 10 Jul 93 00:29:32 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: So. Cal. CLARA Repeater  
To: info-hams@ucsd.edu

Does anyone know the story behind the current power struggle in CLARA that has caused their repeater to go to trash?

For those who do not know what I am talking about, the CLARA repeater is a very wide coverage 2m repeater in Orange County, Ca. Covers from Santa Barbara to Mexico, and seems to be the home of the never-ending QSO. Some kind of power struggle between board members and a control operator has gotten way out of hand and is now in the courts. I don't use CLARA's machine that often and I'm trying to catch up on what happened. It is a most unfortunate circumstance for amateur radio in this area, CLARA is a good training ground for new hams, and usually reliable (until now) in an emergency.

Wm. A. Kirsanoff Internet: WAKIRSAN@ananov.remnet.ab.com  
Rockwell International Ham: KD6MCI  
(714) 762-2872  
Alternate Internet: william\_a.\_kirsanoff@ccmail.anatcp.rockwell.com  
Another Alternate Internet: kirsanwa@catipult.anatcp.rockwell.com

Who are you? \* I am number 2. \* Who is number 1? \* You are number 6.

Date: Fri, 9 Jul 1993 20:31:22 EDT  
From: mulvey!news@uunet.uu.net  
Subject: TUNING A WEIRD LOAD  
To: info-hams@ucsd.edu

ODONNELL.P@MAR65.MAR.ORA.FDA.GOV writes:

> RE: Subject: TUNING A WIERD LOAD....  
>  
>>>I have an interesting r.f. matching problem.  
>  
> To say the least!! What you have is a real dilemma!  
> (stuff deleted)

Talk about tuning a weird load... I discovered today that the coax braid connection to my 40M dipole was broken by wind-stress. The funny thing is, I was in the middle of a QSO when I noticed that my SWR was infinity - I completed the QSO rather quickly after that. :-) And this was while working Rhode Island from NY with 5 watts... I'll give MFJ one thing - their CW rigs will take a lot of abuse. :-)

- Rich

---

Date: 9 Jul 93 17:18:15 EST  
From: titan.ksc.nasa.gov!k4dii.ksc.nasa.gov!user@ames.arpa  
Subject: TUNING A WIERD LOAD....  
To: info-hams@ucsd.edu

In article <21heoqINNgl@mthvax.cs.miami.edu>, guest@phoenix1.ir.miami.edu  
> I have an interesting r.f. matching problem. We are in a plasma physics lab that is using ICOM equipment to drive an experiment. I am looking for either a  
> Dentron Monitor Tuner, a Drake MN-2000 or a Drake MN-2700. I am told that I  
> these devices can " load a lawn chair..." with no problem. My problem is  
> that I can provide a good match ( less than 1.3:1 SWR CW@18.134MHz) but  
> when stuff starts to change in the experiment so does the impedance.

Jonathan-

You have already tried the obvious solutions to your problem. Although the tuners you named may be able to match any load at a given time, I expect they will also be unable to cope with the load changes.

Possible solutions?:

Don't use a tuner. It adds an undesirable reactance after the load has changed. While I don't recommend it, the transmitter's SWR protection circuit can be adjusted to be less sensitive.

Lack of success with the parallel dummy load, suggests that the impedance goes very low. An alternative might be a series dummy load. Why not go a step further, and use a combination series-parallel, also called an "L-Pad" attenuator. This would help remove the effects of load variations on the

transmitter output, and would provide a nearly constant source impedance for your experiment.

To implement an "L-Pad", you need either non-reactive resistive elements capable of handling the power levels, or a commercially available power attenuator. In either case, you may need more power, which means an additional amplifier, which means a heavier attenuator.

Back to your experiment. When you say "plasma", I think of gas discharge tubes that have a high impedance until the gas is ionized, and then present a rather low impedance. In use, they are frequently powered from a voltage that is somewhat greater than the ionization potential of the gas, through a series resistance that limits current after the gas fires. How does this compare with the situation of your experiment?

If there is correlation, you could try using the "L-Pad" hooked up backwards, with the shunt element toward the transmitter, and the series element towards the experiment. By judicious choice of resistors, you might be able to avoid an additional amplifier.

73, Fred, K4DII

fred-mckenzie@ksc.nasa.gov

-----

Date: Fri, 9 Jul 1993 19:58:37 GMT  
From: csus.edu!nic.csu.net!eis.CalState.EDU!jherndo@decwrl.dec.com  
Subject: VE Test Conditions  
To: info-hams@ucsd.edu

I just passed my tech exam (June 25, '93) and had an EXCELLENT testing session. I got there a little early, but was allowed to take my test anyways. Chatter was ongoing, until.. until.. I was handed a test. The room went DEAD silent. And with traffic coming in and out of the room, the immediate response for someone above a whisper was.. Shhh, he's taking a test! Thumbs up! If you're in the Long Beach, California area and looking to take an exam, leave me mail and I'll send you further details.

Congrats on passing the Extra element, geezz.. Concentration wasn't a major necessity for my battle with the novice/tech exams, but I sure can see where it might be necessary for the higher exams. By the way, what is the current waiting period for a new license.. I've heard as soon as 5 weeks and up to 3 months.. what is it at now?

[> John W. Herndon - INTERNET: jherndo@eis.calstate.edu <]  
~~~~~

-----  
Date: Fri, 09 Jul 93 22:33:41 GMT  
From: usc!howland.reston.ans.net!darwin.sura.net!news-feed-1.peachnet.edu!umn.edu!  
csus.edu!netcom.com!netcomsv!orchard.la.locus.com!prodnet.la.locus.com!  
lando.la.locus.com!dana@network.UCSD.EDU  
To: info-hams@ucsd.edu

References <wa2iseC9u1Eq.I3M@netcom.com>, <742177916snx@skyld.tele.com>, <wa2iseC9wrro.7Dp@netcom.com>edu  
Subject : Re: some HTX404 info from packet

In article <wa2iseC9wrro.7Dp@netcom.com> wa2ise@netcom.com (Robert Casey) writes:  
>In article <742177916snx@skyld.tele.com> jangus@skyld.tele.com (Jeffrey D. Angus)  
writes:

>>  
>>In article <wa2iseC9u1Eq.I3M@netcom.com> wa2ise@netcom.com writes:  
>> > hello .. I last reported that it was an htx-440 to make correction. it an  
htx  
>> > 404 I had the chance to try the unit . It look the same as the htx 202 the  
>> > same settings. memory channel .scan. sensitivity 12db sinad .02 uv 20  
db  
>>(rest of my crossposting deleted)  
>  
>> This is a joke right?  
>>  
>> Is it just me or is the literacy level in amateur really this low?  
>  
>I crossposted the above because it has some info that might be interesting  
>to this newsgroup, despite the writing style (which to me looks more  
>like the style done on CW, than that written by someone who has no ability  
>to do real writing). I usually avoid editing crossposts, as I don't  
>want to chew up another author's meaning, or put words in his mouth that  
>he didn't say. As long as it's intelligible and of some interest, I  
>do some crossposting.

The Usenet newbie guide suggests editing crossposts, so don't feel  
bad about editing crossposts.

Jeff is pointing fun at the reported 20nV sensitivity of the HTX-404.

--  
\* Dana H. Myers KK6JQ | Views expressed here are \*  
\* (310) 337-5136 | mine and do not necessarily \*  
\* dana@locus.com DoD #466 | reflect those of my employer

\*

\* This Extra supports the abolition of the 13 and 20 WPM tests \*

-----

End of Info-Hams Digest V93 #838

\*\*\*\*\*